

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1 through 9 cancelled.

Claim 10 cancelled.

11. (New) A diffuser for a centrifugal compressor comprising:

an impeller and blading including a plurality of blades of a single stage, each having a strength in a range between 0.5 and 1 including end values of said range, said strength being provided by the ratio between a pitch of each said blade and a cord thereof, said pitch being provided by the ratio  $\frac{\pi Dp \text{ in}}{Z}$  ,

wherein Z is the number of said blades and Dp in is the diameter of an intake edge of said blading, a deflection  $\beta$  of said blades which is the angle of displacement of a tangent line at the outlet of each blade relative to a tangent line at the intake of the blade lying in a range between an angle of 0° and an angle of 10° including end values of said latter range, a ratio between a diameter of an intake edge Dp in of said blading and an outer diameter D2 of the impeller in a range between 1.04 and 1.14 including end values of the latter range, a ratio between a diameter of an outlet edge Dp out of said blading and an outer diameter of the impeller D2 lying in a range between 1.25 and 1.35 including end values of the latter range.